



ISO 9001:2008 Certified Institute

Java institute for Advanced Technology

Department of Examinations

COURSE(S) – (LEADING TO)	PROFESSIONAL DIPLOMA IN SOFTWARE ENGINEERING
UNIT NAME	WEB COMPONENT DEVELOPMENT II
UNIT ID	HF2K 04
ASSIGNMENT ID	HF2K 04/EX/01
RESEARCH NAME	RESEARCH ON WEB COMPONENT DEVELOPMENT
DESCRIPTION	EXPECTED TO CONDUCT A RESEARCH ON THE CRITICAL UNDERSTANDING OF WEB COMPONENT DEVELOPMENT II
DURATION	2 Weeks
SUBMISSION VIA	ONLINE (STUDENT PORTAL)
DOCUMENT FORMAT	MICROSOFT WORD OFFICE DOCUMENT: DOCUMENT FORMAT

GUIDE LINES FOR CANDIDATES

- Students are expected to use reference books, the Internet, journals and other similar sources in order to accomplish the task specified above.
- Students are expected to refrain from repeating any content in their research document.
- Students will be penalized for any plagiarism.

RESEARCH ON WEB COMPONENT DEVELOPMENT II

We have now covered many different concepts relating to web component development II over the course of this unit, from individual methods and techniques to organization-wide strategies and practices. The purpose of this assignment is for you to apply what you have learned plus additional knowledge issue that you are acquainted with.

Learning Outcomes:

This assignment addresses the following unit learning outcomes:

- LO 1. After the completion of this unit, students should be able to understand how to apply the knowledge of building JSP pages using Expression Language (EL) professionally.
- LO 2. Understand how to apply the knowledge of building JSP pages using standard actions in a professional manner.
- LO 3. Understand how to professionally apply the knowledge of building JSP pages using Tag Libraries.
- LO 4. Understand the application of knowledge in building a custom Tag Library.

Task 1 – Descriptive explaining (2000 words)

Question:

Utilization of J2EE features, components are widely associates in the support of different enterprise level applications.

Discuss the following topics/techniques in related the J2EE.

- Java Server Page
- Expression Language (EL)
- JSP Standard Actions
- Tag Library
- Custom Tag Library
- Servlet Filter

Your answer should contain the following key points. (But not limited to those.)

- An example describes real-world usage.
- A code snippet/s and diagram/s that supports your answer.

Task 2 – Video submission (5 videos)

Submit videos on each topic to explain how to use it. The minimum time for one video is 10 minutes.

Topic
JSP Expression Language (EL)
JSP Standard Actions
JSP Tag Libraries
Custom Tag Library
Servlet Filter

Assignment Submission Guidelines for Students

Students are advised to strictly follow the guidelines specified herein when formulating and submitting research assignments.

Important Information for Students

1. The assignment should be submitted only as a soft copy in a Microsoft Word format on or before the specified assignment due date.
2. The soft copy of the assignment should be uploaded to the student portal using the NIC.
3. The submission date provided for all assignments are the final dates on which you can hand upload the assignments. Please note that late submissions are not allowed.
4. Plagiarism is treated as a serious offence and the work you produce should be individual and original. However, note that students will have to work in groups in certain scenarios.
5. All sources of information in any assignment must be referenced using the “Harvard referencing” system, where a reference listing should be included at the end of the assignment.
6. Please contact your branch on assignments, re-submission, and related procedures.
7. Students are expected to maintain a backup of all assignments. The Java Institute for Advanced Technology retains all the rights to re-call soft copies of any assignment at any time during the course.
8. Students should use the attached assignment coversheet and declaration of authentication form to the assignment.
9. Students are expected to provide the following information in their assignment coversheet:
 - Student name
 - NIC No
 - Subject name
 - Subject code
 - Branch

10. Assignment Report Rules

- Paper Size: A4
- Word Count:2000 words
- Line Spacing:1.5
- Printing Margin:1 inch on LHS and RHS
- Binding Margin: ½ inch
- Header and Footer:1 inch
- Printing: Single-sided
- Basic Font Size:12pt
- Heading:16pt
- Sub-headings:14pt, Bold
- Body:12pt, Justified Aligned
- Font Style: Times New Roman/Calibri